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<input type="checkbox"/>	L3	\$phthalate adj15 (nanoparticle or nanosphere)	10
<input type="checkbox"/>	L2	enteric\$ adj15 (nanoparticle or nanosphere)	7
<input type="checkbox"/>	L1	enteric\$ adj10 (nanoparticle or nanosphere)	7

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L1: Entry 1 of 7

File: USPT

Jan 27, 2004

DOCUMENT-IDENTIFIER: US 6682758 B1

TITLE: Water-insoluble drug delivery system

Other Reference Publication (4):

LeRoux et al., "Pharmacokinetics of a novel HIV-1 protease inhibitor incorporated into biodegradable or enteric nanoparticles following intravenous and oral administration to mice", Journal of Pharmaceutical Sciences (J-Pharm-Sci) 84:1387-1391, Dec. 1995 (3 pages).

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L1: Entry 3 of 7

File: USPT

Jun 24, 1997

DOCUMENT-IDENTIFIER: US 5641745 A

TITLE: Controlled release biodegradable micro- and nanospheres containing cyclosporin

Abstract Text (1):

A controlled release pharmaceutical formulation which comprises cyclosporin entrapped in a biodegradable polymer to form microspheres or nanospheres such that the cyclosporin is substantially in an amorphous state and the biodegradable polymer comprises greater than 12.5% w/w poly(lactide). The biodegradable polymer is suitably poly-D,L-lactide or a blend of poly-D,L-lactide and poly-D,L-lactide-co-glycolide. Additionally, an enteric coating can be applied to the microspheres or nanospheres or to the oral dosage form incorporating the microspheres or nanospheres to protect the formulation while it passes through the stomach. A particularly suitable formulation comprises 50% w/w cyclosporin-loaded 80:20 blend of poly-D,L-lactide-co-glycolide to poly-D,L-lactide micro- and/or nanospheres. This formulation has the combined properties of nearly complete but relatively slow release of cyclosporin within 8 hours and is useful for targeting cyclosporin to the small intestine when administered orally.

Brief Summary Text (20):

The micro- and nanospheres in accordance with the invention are suitably incorporated into oral dosage forms, such as capsules, tablets, powders including powders capable of effervescing upon addition of water, or suspensions. Additionally, an enteric coating can be applied to the microspheres or nanospheres or to the oral dosage form to protect the formulation while it passes through the stomach to further target release of cyclosporin to the small intestine. Alternatively, the micro- and nanospheres in accordance with the invention can be administered parenterally to release greater than 80%, preferably greater than 90%, of the entrapped cyclosporin in a controlled manner over an 8 hour period.

CLAIMS:

5. A controlled release pharmaceutical formulation according to claim 1, further comprising an enteric coating on the microspheres or nanospheres to target release of cyclosporin to the small intestine.

13. A method according to claim 10, wherein the formulation further comprises an enteric coating on the microspheres or nanospheres to target release of cyclosporin to the small intestine.

19. A method according to claim 18, wherein the formulation further comprises an enteric coating on the microspheres or nanospheres to further target release of cyclosporin to the small intestine.

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☐ 1. Document ID: US 6682758 B1

Using default format because multiple data bases are involved.

L1: Entry 1 of 7

File: USPT

Jan 27, 2004

US-PAT-NO: 6682758

DOCUMENT-IDENTIFIER: US 6682758 B1

TITLE: Water-insoluble drug delivery system

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabibi; S. Esmail	Rockville	MD		
Ezennia; Emmanuel I.	Baltimore	MD		
Vishnuvajjala; B. Rao	Rockville	MD		
Gupta; Shanker	Rockville	MD		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Abstracts	Claims	KWIC	Drawings
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☐ 2. Document ID: US 6355270 B1

L1: Entry 2 of 7

File: USPT

Mar 12, 2002

US-PAT-NO: 6355270

DOCUMENT-IDENTIFIER: US 6355270 B1

**** See image for Certificate of Correction ****

TITLE: Particles for oral delivery of peptides and proteins

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ferrari; Mauro	Dublin	OH		
Dehlinger; Peter J.	Palo Alto	CA		
Martin; Francis J.	San Francisco	CA		
Grove; Carl F.	Portola Valley	CA		
Friend; David R.	Menlo Park	CA		

US-CL-CURRENT: 424/489; 424/185.1, 424/450, 424/451, 514/2, 514/21, 530/300,
530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 5641745 A

L1: Entry 3 of 7

File: USPT

Jun 24, 1997

US-PAT-NO: 5641745

DOCUMENT-IDENTIFIER: US 5641745 A

TITLE: Controlled release biodegradable micro- and nanospheres containing cyclosporin

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramtoola; Zeibun	Dublin			IE

US-CL-CURRENT: 514/11; 514/772.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 5641515 A

L1: Entry 4 of 7

File: USPT

Jun 24, 1997

US-PAT-NO: 5641515

DOCUMENT-IDENTIFIER: US 5641515 A

TITLE: Controlled release biodegradable nanoparticles containing insulin

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ramtoola; Zeibun	Dublin			IE

US-CL-CURRENT: 424/489; 424/490, 424/493, 427/212, 427/213.34, 427/213.36, 428/402,
428/402.2, 428/402.21, 428/402.24, 428/403

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: WO 9631202 A1

L1: Entry 5 of 7

File: EPAB

Oct 10, 1996

PUB-NO: WO009631202A1

DOCUMENT-IDENTIFIER: WO 9631202 A1

TITLE: CONTROLLED RELEASE BIODEGRADABLE MICRO- AND NANOSPHERES CONTAINING CYCLOSPORIN

PUBN-DATE: October 10, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

RAMTOOLA, ZEBUNNISSA

INT-CL (IPC): A61 K 31/13; A61 K 9/16; A61 K 9/51

EUR-CL (EPC): A61K009/16; A61K038/13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 6. Document ID: EP 1311288 A1, US 20010044416 A1, WO 200195935 A1, AU 200131080 A

L1: Entry 6 of 7

File: DWPI

May 21, 2003

DERWENT-ACC-NO: 2002-138610

DERWENT-WEEK: 200334

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TITLE: Inducing an antigen specific immune response useful in treating Th1-mediated inflammatory disorders, e.g., (non)-autoimmune diseases or cancer, comprises administering a Th2-immunostimulatory nucleic acid and an antigen

INVENTOR: DAVIS, H L; MCCLUSKIE, M J

PRIORITY-DATA: 2000US-177461P (January 20, 2000), 2001US-0768012 (January 22, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1311288 A1</u>	May 21, 2003	E	000	A61K039/39
<u>US 20010044416 A1</u>	November 22, 2001		050	A61K048/00
<u>WO 200195935 A1</u>	December 20, 2001	E	000	A61K039/39
<u>AU 200131080 A</u>	December 24, 2001		000	A61K039/39

INT-CL (IPC): A61 K 9/00; A61 K 31/573; A61 K 31/675; A61 K 31/7088; A61 K 38/13; A61 K 38/19; A61 K 38:19; A61 K 39/00; A61 K 39/002; A61 K 39/02; A61 K 39/08; A61 K 39/12; A61 K 39/145; A61 K 39/29; A61 K 39/295; A61 K 39/39; A61 K 39/395; A61 K 39:00; A61 K 48/00; A61 P 3/10; A61 P 17/06; A61 P 31/00; A61 P 31/04; A61 P 33/00; A61 P 35/00; A61 P 37/00; A61 K 39/00; A61 K 38:19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 7. Document ID: ES 2213770 T3, WO 9631231 A1, AU 9652867 A, ZA 9602671 A, US 5641515 A, EP 820300 A1, IE 80468 B, JP 11503148 W, NZ 304976 A, AU 704875 B, EP 820300 B1, DE 69631824 E

L1: Entry 7 of 7

File: DWPI

Sep 1, 2004

DERWENT-ACC-NO: 1996-464765

DERWENT-WEEK: 200458

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TITLE: Controlled release insulin nano-particle formulations - comprising poly:alkyl-cyano acrylate polymer entrapping complexed insulin, for treating diabetes

INVENTOR: RAMTOOLA, Z

PRIORITY-DATA: 1995IE-0000237 (April 4, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ES 2213770 T3	September 1, 2004		000	A61K038/28
WO 9631231 A1	October 10, 1996	E	000	A61K038/28
AU 9652867 A	October 23, 1996		000	A61K038/28
ZA 9602671 A	December 31, 1996		018	A61K000/00
US 5641515 A	June 24, 1997		008	A61K009/14
EP 820300 A1	January 28, 1998	E	000	A61K038/28
IE 80468 B	July 29, 1998		000	A61K009/51
JP 11503148 W	March 23, 1999		019	A61K038/28
NZ 304976 A	April 29, 1999		000	A61K038/28
AU 704875 B	May 6, 1999		000	A61K038/28
EP 820300 B1	March 10, 2004	E	000	A61K038/28
DE 69631824 E	April 15, 2004		000	A61K038/28

INT-CL (IPC): A61 K 0/00; A61 K 9/14; A61 K 9/22; A61 K 9/51; A61 K 38/28; A61 K 47/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Send Refs	Attachments	Claims	MMIC	Draw D
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Terms	Documents
enteric\$ adj10 (nanoparticle or nanosphere)	7

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